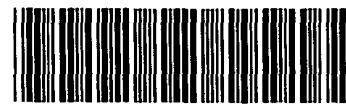


1644

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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/343,406B

DATE: 05/01/2002 P.6
 TIME: 12:35:38

Input Set : A:\100564-09014.txt
 Output Set: N:\CRF3\05012002\I343406B.raw

3 <110> APPLICANT: Endl, Josef
 4 Stahl, Peter
 5 Albert, Winfried
 6 Jung, Guenther-Gerhard
 7 Schendel, Dolores
 8 Meinl, Edgar
 9 Dornmair, Klaus
 11 <120> TITLE OF INVENTION: ANTIGEN-SPECIFIC ACTIVATED T-LYMPHOCYTES, DETECTION AND USE
 13 <130> FILE REFERENCE: 100564-09014
 15 <140> CURRENT APPLICATION NUMBER: 09/343,406B
 16 <141> CURRENT FILING DATE: 1999-06-30
 18 <150> PRIOR APPLICATION NUMBER: 08/967,242
 19 <151> PRIOR FILING DATE: 1997-11-05
 21 <150> PRIOR APPLICATION NUMBER: 08/374,468
 22 <151> PRIOR FILING DATE: 1995-01-18
 24 <150> PRIOR APPLICATION NUMBER: DE P 44 18 091.8
 25 <151> PRIOR FILING DATE: 1994-05-24
 27 <150> PRIOR APPLICATION NUMBER: DE P 44 03 522.5
 28 <151> PRIOR FILING DATE: 1994-02-04
 30 <150> PRIOR APPLICATION NUMBER: DE P 44 01 629.8
 31 <151> PRIOR FILING DATE: 1994-01-20
 34 <160> NUMBER OF SEQ ID NOS: 40
 36 <170> SOFTWARE: PatentIn version 3.1
 38 <210> SEQ ID NO: 1
 39 <211> LENGTH: 24
 40 <212> TYPE: PRT
 41 <213> ORGANISM: Homo sapiens
 43 <220> FEATURE:
 44 <221> NAME/KEY: MISC_FEATURE
 45 <222> LOCATION: (1)..(10)
 46 <223> OTHER INFORMATION: "Xaa" is any amino acid and 1 to 10 amino acids may be missing
 48 <222> LOCATION: (17)..(24)
 50 <223> OTHER INFORMATION: "Xaa" is any amino acid and 1 to 8 amino acids may be missing
 W--> 53 <400> 1
 W--> 55 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Glu Val Lys Thr Lys
 56 1 5 10 15
 W--> 58 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 59 20
 62 <210> SEQ ID NO: 2
 63 <211> LENGTH: 25
 64 <212> TYPE: PRT
 65 <213> ORGANISM: Homo sapiens
 67 <400> SEQUENCE: 2

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/343,406B

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Input Set : A:\100564-09014.txt

Output Set: N:\CRF3\05012002\I343406B.raw

69 Gly Met Ala Ala Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu His Ser
70 1 5 10 15
73 His Phe Ser Leu Lys Lys Gly Ala Ala
74 20 25
77 <210> SEQ ID NO: 3
78 <211> LENGTH: 20
79 <212> TYPE: PRT
80 <213> ORGANISM: Homo sapiens
82 <400> SEQUENCE: 3
84 Glu Arg Gly Lys Met Ile Pro Ser Asp Leu Glu Arg Arg Ile Leu Glu
85 1 5 10 15
88 Ala Lys Gln Lys
89 20
92 <210> SEQ ID NO: 4
93 <211> LENGTH: 14
94 <212> TYPE: PRT
95 <213> ORGANISM: Homo sapiens
97 <400> SEQUENCE: 4
99 Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu His Ser His Phe
100 1 5 10
103 <210> SEQ ID NO: 5
104 <211> LENGTH: 20
105 <212> TYPE: PRT
106 <213> ORGANISM: Homo sapiens
108 <400> SEQUENCE: 5
110 Gly Met Ala Ala Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu His Ser
111 1 5 10 15
114 His Phe Ser Leu
115 20
118 <210> SEQ ID NO: 6
119 <211> LENGTH: 20
120 <212> TYPE: PRT
121 <213> ORGANISM: Homo sapiens
123 <400> SEQUENCE: 6
125 Ala Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu His Ser His Phe Ser
126 1 5 10 15
129 Leu Lys Lys Gly
130 20
133 <210> SEQ ID NO: 7
134 <211> LENGTH: 20
135 <212> TYPE: PRT
136 <213> ORGANISM: Homo sapiens
138 <400> SEQUENCE: 7
140 Arg Leu Ile Ala Phe Thr Ser Glu His Ser His Phe Ser Leu Lys Lys
141 1 5 10 15
144 Gly Ala Ala Ala
145 20
148 <210> SEQ ID NO: 8
149 <211> LENGTH: 20

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/343,406B

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TIME: 12:35:38

Input Set : A:\100564-09014.txt

Output Set: N:\CRF3\05012002\I343406B.raw

150 <212> TYPE: PRT
151 <213> ORGANISM: Homo sapiens
153 <400> SEQUENCE: 8
155 Pro Glu Val Lys Glu Lys Gly Met Ala Ala Leu Pro Arg Leu Ile Ala
156 1 5 10 15
159 Phe Thr Ser Glu
160 20
163 <210> SEQ ID NO: 9
164 <211> LENGTH: 18
165 <212> TYPE: PRT
166 <213> ORGANISM: Homo sapiens
168 <400> SEQUENCE: 9
170 Ala Ala Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu His Ser His Phe
171 1 5 10 15
174 Ser Leu
178 <210> SEQ ID NO: 10
179 <211> LENGTH: 16
180 <212> TYPE: PRT
181 <213> ORGANISM: Homo sapiens
183 <400> SEQUENCE: 10
185 Ala Ala Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu His Ser His Phe
186 1 5 10 15
189 <210> SEQ ID NO: 11
190 <211> LENGTH: 14
191 <212> TYPE: PRT
192 <213> ORGANISM: Homo sapiens
194 <400> SEQUENCE: 11
196 Ala Ala Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu His Ser
197 1 5 10
200 <210> SEQ ID NO: 12
201 <211> LENGTH: 14
202 <212> TYPE: PRT
203 <213> ORGANISM: Homo sapiens
205 <400> SEQUENCE: 12
207 Ala Ala Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu His Ser
208 1 5 10
211 <210> SEQ ID NO: 13
212 <211> LENGTH: 14
213 <212> TYPE: PRT
214 <213> ORGANISM: Homo sapiens
216 <400> SEQUENCE: 13
218 Gly Met Ala Ala Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu
219 1 5 10
222 <210> SEQ ID NO: 14
223 <211> LENGTH: 12
224 <212> TYPE: PRT
225 <213> ORGANISM: Homo sapiens
227 <400> SEQUENCE: 14
229 Gly Met Ala Ala Leu Pro Arg Leu Ile Ala Phe Thr

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/343,406B

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Input Set : A:\100564-09014.txt
Output Set: N:\CRF3\05012002\I343406B.raw

230 1 5 10
233 <210> SEQ ID NO: 15
234 <211> LENGTH: 18
235 <212> TYPE: PRT
236 <213> ORGANISM: Homo sapiens
238 <400> SEQUENCE: 15
240 Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu His Ser His Phe Ser Leu
241 1 5 10 15
244 Lys Lys
248 <210> SEQ ID NO: 16
249 <211> LENGTH: 14
250 <212> TYPE: PRT
251 <213> ORGANISM: Homo sapiens
253 <400> SEQUENCE: 16
255 Arg Leu Ile Ala Phe Thr Ser Glu His Ser His Phe Ser Leu
256 1 5 10
259 <210> SEQ ID NO: 17
260 <211> LENGTH: 14
261 <212> TYPE: PRT
262 <213> ORGANISM: Homo sapiens
264 <400> SEQUENCE: 17
266 Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu His Ser His Phe
267 1 5 10
270 <210> SEQ ID NO: 18
271 <211> LENGTH: 12
272 <212> TYPE: PRT
273 <213> ORGANISM: Homo sapiens
275 <400> SEQUENCE: 18
277 Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu His Ser
278 1 5 10
281 <210> SEQ ID NO: 19
282 <211> LENGTH: 14
283 <212> TYPE: PRT
284 <213> ORGANISM: Homo sapiens
286 <400> SEQUENCE: 19
288 Ile Leu Ile Lys Cys Asp Glu Arg Gly Lys Met Ile Pro Ser
289 1 5 10
292 <210> SEQ ID NO: 20
293 <211> LENGTH: 14
294 <212> TYPE: PRT
295 <213> ORGANISM: Homo sapiens
297 <400> SEQUENCE: 20
299 Leu Gly Ile Gly Thr Asp Ser Val Ile Leu Ile Lys Cys Asp
300 1 5 10
303 <210> SEQ ID NO: 21
304 <211> LENGTH: 14
305 <212> TYPE: PRT
306 <213> ORGANISM: Homo sapiens
308 <400> SEQUENCE: 21

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/343,406B

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Input Set : A:\100564-09014.txt
Output Set: N:\CRF3\05012002\I343406B.raw

310 Leu Ala Phe Leu Gln Asp Val Met Asn Ile Leu Leu Gln Tyr
311 1 5 10
314 <210> SEQ ID NO: 22
315 <211> LENGTH: 14
316 <212> TYPE: PRT
317 <213> ORGANISM: Homo sapiens
319 <400> SEQUENCE: 22
321 Tyr Asp Leu Ser Tyr Asp Thr Gly Asp Lys Ala Leu Gln Cys
322 1 5 10
325 <210> SEQ ID NO: 23
326 <211> LENGTH: 14
327 <212> TYPE: PRT
328 <213> ORGANISM: Homo sapiens
330 <400> SEQUENCE: 23
332 Val Ser Tyr Gln Pro Leu Gly Asp Lys Val Asn Phe Phe Arg
333 1 5 10
336 <210> SEQ ID NO: 24
337 <211> LENGTH: 14
338 <212> TYPE: PRT
339 <213> ORGANISM: Homo sapiens
341 <400> SEQUENCE: 24
343 Leu Ala Ala Asp Trp Leu Thr Ser Thr Ala Asn Thr Asn Met
344 1 5 10
347 <210> SEQ ID NO: 25
348 <211> LENGTH: 14
349 <212> TYPE: PRT
350 <213> ORGANISM: Homo sapiens
352 <400> SEQUENCE: 25
354 Leu Leu Tyr Gly Asp Ala Glu Lys Pro Ala Glu Ser Gly Gly
355 1 5 10
358 <210> SEQ ID NO: 26
359 <211> LENGTH: 14
360 <212> TYPE: PRT
361 <213> ORGANISM: Homo sapiens
363 <400> SEQUENCE: 26
365 Val Asn Tyr Ala Phe Leu His Ala Thr Asp Leu Leu Pro Ala
366 1 5 10
369 <210> SEQ ID NO: 27
370 <211> LENGTH: 14
371 <212> TYPE: PRT
372 <213> ORGANISM: Homo sapiens
374 <400> SEQUENCE: 27
376 Leu Leu Gln Tyr Val Val Lys Ser Phe Asp Arg Ser Thr Lys
377 1 5 10
380 <210> SEQ ID NO: 28
381 <211> LENGTH: 14
382 <212> TYPE: PRT
383 <213> ORGANISM: Homo sapiens
385 <400> SEQUENCE: 28

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/01/2002
PATENT APPLICATION: US/09/343,406B TIME: 12:35:39

Input Set : A:\100564-09014.txt
Output Set: N:\CRF3\05012002\I343406B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,17,18,19,20,21,22,23,24
Seq#:40; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,17,18,19,20,21,22,23,24

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/343,406B

DATE: 05/01/2002

TIME: 12:35:39

Input Set : A:\100564-09014.txt

Output Set: N:\CRF3\05012002\I343406B.raw

L:53 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:55 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16
L:527 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:40
L:529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:16